

Amendments to the Claims:

1 1. (canceled)

1 2. (canceled)

1 3. (canceled)

1 4. (currently amended) A coaxial feedthrough connector for connecting an RF signal
2 through a wall in a hazardous environment, the connector comprising:

3 (a) a base having an axial passage defined by a passage interior surface;

4 (b) a coaxial transmission line extending through the passage;

5 (c) a nonconductive sealing compound filling at least a longitudinal segment of the
6 passage and sealingly engaged to both the transmission line and to the passage
7 surface; and

8 (d) ~~A connector in accordance with claim 1, wherein~~ a coaxial connector ~~[[is]]~~
9 mounted in an end of the passage for connection to a coaxial cable, the coaxial
10 connector being electrically connected to the transmission line.

1 5. (original) A connector in accordance with claim 4 wherein the base has a threaded boss
2 extending from the base and coaxially with the passage for connecting the base to the
3 wall or to a conduit connected to the wall.

1 6. (original) A connector in accordance with claim 5 wherein a radome is mounted on the
2 base opposite the boss and an antenna radiating element is mounted within the radome
3 and is electrically connected to the transmission line.

1 7. (canceled)

1 8. (currently amended) A coaxial feedthrough connector for connecting an RF signal
2 through a wall in a hazardous environment, the connector comprising:

3 (a) a base having an axial passage defined by a passage interior surface, the base
4 comprising an outer base member and a coaxial insert mounted in a coaxial bore
5 formed in the outer base member, the coaxial insert having a central passage
6 coaxial with a central passage in the outer base member, the central passages
7 being contiguous and together forming said axial passage;

8 (b) a coaxial transmission line extending through the passage; and

9 (c) a nonconductive sealing compound filling at least a longitudinal segment of the
10 passage and sealingly engaged to both the transmission line and to the passage
11 surface

12 ~~A connector in accordance with claim 7,~~ wherein the central passage of the outer base
13 member is smaller than the central passage of the insert and a coaxial cable connector
14 is engaged in the end of the smaller central passage, and wherein the sealing
15 compound extends into sealing contact with the coaxial cable connector.

1 9. (original) A connector in accordance with claim 8 wherein an interior, annular
2 shoulder is formed in the insert adjacent the central passage of the outer base member for
3 increased sealant sealing area between the insert and the outer base member.

1 10. (original) A connector in accordance with claim 9 wherein the base has a threaded
2 boss extending from the base and coaxially with the passage for connecting the base to
3 the wall or to a conduit connected to the wall.

1 11. (original) A connector in accordance with claim 10 wherein a radome is mounted on
2 the base opposite the boss and an antenna radiating element is mounted within the
3 radome and is electrically connected to the transmission line.

1 12. (original) A connector in accordance with claim 11 wherein the sealing compound is
2 a silicone sealing compound.

1 13. (original) A connector in accordance with claim 12 wherein the silicone sealing
2 compound is a two part, GE-RTV-627 compound.

1 14. (currently amended) A coaxial feedthrough connector for connecting an RF signal
2 through a wall in a hazardous environment, the connector comprising:

3 (a) a base having an axial passage defined by a passage interior surface;

4 (b) a coaxial transmission line extending through the passage; and

5 (c) a nonconductive sealing compound filling at least a longitudinal segment of the
6 passage and sealingly engaged to both the transmission line and to the passage
7 surface,

8 ~~A connector in accordance with claim 1,~~ wherein a coaxial boss is formed at each
9 opposite end of the base, a coaxial cable connector is mounted in the boss at each end
10 of the passage and each coaxial connector is electrically connected to an opposite end
11 of the transmission line and in sealing contact with the sealing compound.

1 15. A connector in accordance with claim 14 wherein the sealing compound is a silicone
2 sealing compound.

1 16. A connector in accordance with claim 15 wherein the silicone sealing compound is a
2 two part, GE-RTV-627 compound.